



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax 613 632-5246

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
P0041405	TWM001-VU	2	1	Net 30	M304P0.675W.091	304/316 Pipe .675 OD x .091 Wall Thickness : MATERIAL: TP304/TP316 STAINLESS STEEL SEAMLESS PIPE AS PER ASTM A312/ASME SA312 receive ft				24	11/9/2018	23		S126571	Stock	11/9/2018	\$ 5.00 / ft	0		\$115.84	TW Metals
		3			M304TR0.500W.049	304 Round Tube .500 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft				48		60		S126572	Stock	11/9/2018	\$ 3.44 / ft	0		\$206.31	TW Metals
		4			M304TR0.750W.049	304 Round Tube .750 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft				192		200		S126573	Stock	11/9/2018	\$ 2.58 / ft	0		\$515.80	TW Metals
		5			M304TR0.875W.065	304 Round Tube .875 X .065W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft				12		20		S126574	Stock	11/9/2018	\$ 4.20 / ft	0		\$84.00	TW Metals
		6			M304TR1.250W.125	304 Round Tube 1.250 X .125W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft				24		40		S126575	Stock	11/9/2018	\$ 6.15 / ft	0		\$246.00	TW Metals

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
		7			M6061T6T0.3125W.058	Aluminum Tube .3125 X .058W : MATERIAL: 6061- T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ- A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft				100				S126576	Stock	11/9/2018	\$ 3.08 / ft	0		\$332.52	TW Metals
		8			M6061T6T0.625W.125	6061-T6 Round Tube 0.625 X.125W : MATERIAL: 6061- T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ- A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft				12		12		S126577	Stock	11/9/2018	\$ 5.15 / ft	0		\$61.80	TW Metals
		9			M6061T6T0.375W.035	6061-T6 Round Tube .375 X.035W : MATERIAL: 6061- T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ- A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft				48		48		S126578	Stock	11/9/2018	\$ 3.40 / ft	0		\$163.20	TW Metals
										Total:	460	511								\$1,725.47	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO041405

Supplier: TWM001-VU
TW Metals
PO Box 933014
Atlanta, GA 31193-3014 USA
Phone: 585 768 5600
Fax: 585 768 5601

PO No: PO041405
PO Date: 10/22/18
Due Date: 10/30/18

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
OCT 23 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		M2024T3T1.000W.065		2024T3 Tubing 1" OD x 0.65" Thick : MATERIAL: 2024-T3 SEAMLESS ALUMINUM TUBING SPECIFICATION; WW-T-700/3, AMS 4088 OR AMS-WW-T-700/3 OR ASTM B210 receive ft	Firmed	-	10/30/18	312 ft	0 ft	312 ft	\$7.50/ft	\$2,340.00
Line Item Note 26 pcs of 12 ft												
2		M304P0.675W.091		304/316 Pipe .675 OD x .091 Wall Thickness : MATERIAL: TP304/TP316 STAINLESS STEEL SEAMLESS PIPE AS PER ASTM A312/ASME SA312 receive ft	Firmed	-	10/30/18	24 ft	0 ft	24 ft	\$5.00/ft	\$120.00
✓ AT								23.167		AT 18/11/09		
3		M304TR0.500W.049		304 Round Tube .500 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft	Firmed	-	10/30/18	48 ft	0 ft	48 ft	\$3.4385/ft	\$165.05
✓ AT								60ft		AT 18/11/09		



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO041405

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
4 ✓ AT		M304TR0.750W.049		304 Round Tube .750 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft	Firmed	-	10/30/18	192 ft	0 ft	192 ft	\$2.579/ft	\$495.17
5 ✓ AT		M304TR0.875W.065		304 Round Tube .875 X .065W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft	Firmed	-	10/30/18	12 ft	0 ft	12 ft	\$4.20/ft	\$50.40
6 ✓ AT		M304TR1.250W.125		304 Round Tube 1.250 X .125W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft	Firmed	-	10/30/18	24 ft	0 ft	24 ft	\$6.15/ft	\$147.60
7 ✓ AT		M6061T6T0.3125W.058		Aluminum Tube .3125 X .058W : MATERIAL: 6061- T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ- A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	-	10/30/18	100 ft	0 ft	100 ft	\$3.0789/ft	\$307.89
8 ✓ AT		M6061T6T0.625W.125		6061-T6 Round Tube 0.625 X.125W : MATERIAL: 6061- T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ- A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	-	10/30/18	12 ft	0 ft	12 ft	\$5.15/ft	\$61.80



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Hawkesbury, ON
K6A 1K7
Canada

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PURCHASE ORDER **PO041405**

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
9 <i>✓</i> <i>AT</i>		M6061T6T0.375W.035		6061-T6 Round Tube .375 X.035W : MATERIAL: 6061- T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ- A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	-	10/30/18	48 ft <i>✓</i>	0 ft <i>48 ft</i>	48 ft <i>M</i>	\$3.40/ft <i>18/11/04</i>	\$163.20

Grand Total: \$3,851.11

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 10/22/18 9:05 AM dart.lavoie.chantal



O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 80970737

FROM: CHIC

PAGE 1

BT NUMBER: 1203820

NET WGT:

151.292 REQ.DATE: 11/09/18 EARLY

LD TO:

SHIP TO:

RT AEROSPACE LTD

DART AEROSPACE LTD

70 ABERDEEN ST

1270 ABERDEEN ST

WESBURY ON

HAWKSBURY ON

JADA

ONTARIO CANADA

CN K6A 1K7

LESPERSON:

MIKE ANDERSON

SHIP BY:

11/06/18

RMS:

NET 30 DAYS

VIA:

COMMON CARRIER

D.B.:

SHIPPING POINT

FREIGHT:

PREPAID

BT ORD NO.:

PO041405

RELEASE NO.:

RECEIVING PHONE:

VE ITEM DESCRIPTION

01 43260 D2024-T3 1 OD X .065 WA

WIDTH

LENGTH

12 FT ML

J#

ORD QTY

INVOICE QTY

SHIPPED QTY

WT

PCS

312.000 FT

312.000 FT

312.000 FT

71.436

26

RT#: M2024T3T1.000W.065

1 TEST REPORTS REQUIRED **

1 CERTS REQUIRED **

CN: EAR99

Export License: NLR

:49394608 HT:F002819470001 PC: 26

C:UNITED STATES MFG:UNITED STATES

Expiration Date: 0/00/00

CUSTOMER QTY:

312.000

UOM FT

SLB/CL:227053

02 38420 SMLS 304/L A-312 3/8 SCH 40

17/24 FT

J#

ORD QTY

INVOICE QTY

SHIPPED QTY

WT

PCS

20.000 FT

23.167 FT

23.167 FT

13.271

1

RT#: M304P0.675W.091

1 TEST REPORTS REQUIRED **

1 CERTS REQUIRED **

CN: 2B999.g

Export License: NLR

:49383265 HT:11P046 PC: 1

C:CHINA MFG:CHINA

Expiration Date: 0/00/00

CUSTOMER QTY:

23.167

UOM 1

SLB/CL:LWMK92

03 37241 SMLS CD 304/L A269 1-1/4 X .120WA

20 FT

J#

ORD QTY

INVOICE QTY

SHIPPED QTY

WT

PCS

40.000 FT

40.000 FT

40.000 FT

57.917

2

RT#: M304RT1.250W.125

1 TEST REPORTS REQUIRED **

1 CERTS REQUIRED **

CN: 2B999.g

Export License: NLR

Expiration Date: 0/00/00

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.



O'Neal High-Performance Metals Group



Packing Slip

ORDER NO.: 80970737

FROM: CHIC

PAGE 2

ST NUMBER: 1203820

NET WGT:

151.292 REQ.DATE: 11/09/18 EARLY

LD TO:

SHIP TO:

RT AEROSPACE LTD

DART AEROSPACE LTD

70 ABERDEEN ST

1270 ABERDEEN ST

WESBURY ON

HAWKS BURY ON

JADA

ONTARIO CANADA

CN K6A 1K7

CN K6A 1K7

RESPERSON:

MIKE ANDERSON

SHIP BY:

11/06/18

RMS:

NET 30 DAYS

VIA:

COMMON CARRIER

O.B.:

SHIPPING POINT

FREIGHT:

PREPAID

ST ORD NO.:

PO041405

RELEASE NO.:

RECEIVING PHONE:

JE ITEM DESCRIPTION

:49385117

HT:N180219AS15

PC: 2

CHINA

MFG:CHINA

WIDTH

LENGTH

CUSTOMER QTY:

40.000

UOM FT

SLB/CL:-

04 41723 D6061-T6 5/16 OD X .058 WA

12 FT ML

J#

ORD QTY

INVOICE QTY

SHIPPED QTY

108.000 FT

108.000 FT

108.000 FT

WT

PCS

5.897

9

RT#: M6061T6T0.3125W.058

1 TEST REPORTS REQUIRED **

1 CERTS REQUIRED **

CN: EAR99

Export License: NLR

:49380591

HT:2927553

PC: 9

Expiration Date: 0/00/00

UNITED STATES

MFG:UNITED STATES

CUSTOMER QTY:

108.000

UOM FT

SLB/CL:2927553

05 42588 D6061-T6 5/8 OD X .125 WA

12 FT ML

J#

ORD QTY

INVOICE QTY

SHIPPED QTY

12.000 FT

12.000 FT

12.000 FT

WT

PCS

2.771

1

RT#: M6061T6T0.625W.125

1 TEST REPORTS REQUIRED **

1 CERTS REQUIRED **

CN: EAR99

Export License: NLR

:49383418

HT:F002625360001

PC: 1

Expiration Date: 0/00/00

UNITED STATES

MFG:UNITED STATES

CUSTOMER QTY:

12.000

UOM FT

SLB/CL:225211

WORKERS KUEHNE AND NAGEL LTD

EA TYPE OF PKG
REDDICRATE

PKGS
1.000

PACK INFO
GRS WEIGHT
121.000

WIDTH
8.0000

LENGTH
150.0000

HGHT
8

CUBIC FT 5.5556

THANK YOU FOR THIS ORDER

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O'Neal High-Performance Metals Group



Packing
Slip

ORDER NO.: 80970737

FROM: CHIC

PAGE 3

ST NUMBER: 1203820

NET WGT:

151.292 REQ.DATE: 11/09/18 EARLY

LD TO:

SHIP TO:

RT AEROSPACE LTD

DART AEROSPACE LTD

70 ABERDEEN ST

1270 ABERDEEN ST

WESBURY ON

HAWKSBURY ON

JADA

CN K6A 1K7

ONTARIO CANADA

CN K6A 1K7

LESPERSON:

MIKE ANDERSON

SHIP BY:

11/06/18

RMS:

NET 30 DAYS

VIA:

COMMON CARRIER

D.B.:

SHIPPING POINT

FREIGHT:

PREPAID

ST ORD NO.:

PO041405

RELEASE NO.:

RECEIVING PHONE:

JE ITEM DESCRIPTION

REDDICRATE

1.000

WIDTH
129.000

LENGTH

4.0000 284.0000

4

CUBIC FT 2.6296

2.000

250.000

: RR

000-

UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED _____

DATE FILLED _____

HANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
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O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 80970737

FROM: CHIC

PAGE 4

ST NUMBER: 1203820 NET WGT:

LD TO:

RT AEROSPACE LTD

70 ABERDEEN ST

WILKESBURY ON

CANADA

CN K6A 1K7

151.292 REQ.DATE: 11/09/18 EARLY

SHIP TO:

DART AEROSPACE LTD

1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

LESSPERSON:

MIKE ANDERSON

TERMS:

NET 30 DAYS

O.B.:

SHIPPING POINT

ST ORD NO.:

PO041405

BY:

COMMON CARRIER

RIGHT:

PREPAID

LEASE NO.:

RECEIVING PHONE:

SHIP BY:

11/06/18

235 TUBEWAY

CAROL STREAM

IL 60188

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and retained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Electronically Generated Document-Valid Without Signature

Date: 11/06/18

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. No version contrary to U.S. law prohibited.

HANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.



O'Neal High-Performance Metals Group



Packing Slip

ORDER NO.: 60668340

FROM: CRAN

PAGE 1

CUST NUMBER: 1203820

NET WGT:

100.851 REQ.DATE: 11/12/18 EARLY

SOLD TO:

SHIP TO:

DART AEROSPACE LTD

DART AEROSPACE LTD

1270 ABERDEEN ST

1270 ABERDEEN ST

HAWKESBURY ON

HAWKESBURY ON

CANADA

ONTARIO CANADA

CN K6A 1K7

CN K6A 1K7

SALESPERSON:

MIKE ANDERSON

SHIP BY:

11/07/18

TERMS:

NET 30 DAYS

VIA:

COMMON CARRIER

F.O.B.:

SHIPPING POINT

FREIGHT:

PREPAID

CUST ORD NO.:

PO041405

RELEASE NO.:

RECEIVING PHONE:

LINE ITEM DESCRIPTION

0001 36506 SMLS CD 304/L A269 1/2 OD X .049 WA

WIDTH

LENGTH
20' ML

CLN#

ORD QTY

INVOICE QTY

SHIPPED QTY

WT

PCS
3

60.000 FT

60.000 FT

60.000 FT

14.155

PART#: M304TR0.500W.049

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 2B999.g

Export License: NLR

PO:49380769 HT:N171009AS12

PC: 3

Expiration Date: 0/00/00

MLT:CHINA

MFG:CHINA

CUSTOMER QTY:

UOM

SLB/CL:180419769-10

0002 36860 SMLS CD 304/L A269 3/4 OD X .049 WA

20' CL

CLN#

ORD QTY

INVOICE QTY

SHIPPED QTY

WT

PCS
10

200.000 FT

200.000 FT

200.000 FT

73.344

PART#: M304TR0.75W.049

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 2B999.g

Export License: NLR

PO:49385121 HT:N180118AS01

PC: 10

Expiration Date: 0/00/00

MLT:CHINA

MFG:CHINA

CUSTOMER QTY:

UOM

SLB/CL:18MTC-0725121-07

0003 36969 SMLS CD 304/L A269 7/8 OD X .065 WA

20' CL

CLN#

ORD QTY

INVOICE QTY

SHIPPED QTY

WT

PCS
1

20.000 FT

20.000 FT

20.000 FT

11.244

PART#: M304TR0.875W.065

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 2B999.g

Export License: NLR

Expiration Date: 0/00/00

1

THANK YOU FOR THIS ORDER

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PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
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<http://www.twmetals.com/invoice-terms.html>



O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 60668340 FROM: CRAN PAGE 2

CUST NUMBER: 1203820 NET WGT: 100.851 REQ.DATE: 11/12/18 EARLY
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA ONTARIO CANADA

CN K6A 1K7

CN K6A 1K7

SALESPERSON: MIKE ANDERSON SHIP BY: 11/07/18
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: PO041405 RELEASE NO.:
RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH UOM
PO:49377294 HT: FX1709608 PC: 1 CUSTOMER QTY:
MLT:CHINA MFG:CHINA SLB/CL:180127-10

0004 41879 D6061-T6 3/8 OD X .035 WA 12 FT ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	48.000 FT	<u>48.000 FT</u>	48.000 FT	2.108	4

PART#: M6061T6T0.375W.035

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99

Export License: NLR

PO:49392322 HT: F002772010001 PC: 4

Expiration Date: 0/00/00

MLT:UNITED STATES MFG:UNITED STATES

CUSTOMER QTY: UOM
SLB/CL:226651

BROKERS KUEHNE AND NAGEL LTD

AREA	TYPE OF PKG	PKGS	GRS WEIGHT	WIDTH	LENGTH	HGHT
NEW PEN REDDICRATE		1.000	160.851	4.0000	246.0000	5
Orders In Package - 1		Box No -	TWPK18044189		CUBIC FT	2.8472
		1.000	160.851			

BY: Tom Weaver
RT 000-

UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED _____

DATE FILLED _____

THANK YOU FOR THIS ORDER

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PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
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<http://www.twmetals.com/invoice-terms.html>



O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 60668340

FROM: CRAN

PAGE 3

CUST NUMBER: 1203820 NET WGT:
SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
CANADA

100.851 REQ.DATE: 11/12/18 EARLY
SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKSURY ON
ONTARIO CANADA

CN K6A 1K7

CN K6A 1K7

SALESPERSON: MIKE ANDERSON
TERMS: NET 30 DAYS
F.O.B.: SHIPPING POINT
CUST ORD NO.: PO041405
VIA: COMMON CARRIER
FREIGHT: PREPAID
RELEASE NO.:
RECEIVING PHONE:

SHIP BY: 11/07/18
27 ENGLEHARD DRIVE
MONROE TWP NJ 08831

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Electronically Generated Certificate-Valid without signature Date: 11/07/18

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

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KAISER ALUMINUM FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER: M49394608-1		CUSTOMER PART NUMBER: 43260		PRODUCT DESCRIPTION: Drawn Seamless Tube/Pipe	
KAISER ORDER NUMBER: 227053	LINE ITEM: 001	SHIP DATE: 09/28/2018	KAISER LOT NUMBER: F00281947	ALLOY: 2024	TEMPER: T3
WEIGHT SHIPPED: 379.000 LB	QUANTITY: 138.000 PCS	B/L NUMBER: 231219	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: TW METALS INC 235 WEST TUBEWAY DRIVE CAROL STREAM, IL 60188 USA			SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

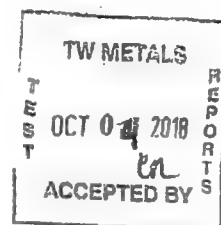
REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00281947	0001	0001	71.4	50.0	24.5	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.50	0.50	4.90	0.90	1.80	0.10	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.00	0.00	3.80	0.30	1.20	0.00	0.00	0.00	NA	NA	NA	0.00	0.00
D32229	.13	.19	4.55	.77	1.36	.01	.14	.03	.00	.00	.01	.01	.02

Applicable Requirements:

Description: OD: 1.0000"; Wall: 0.0650"; Round @
AMS4088K AMS-WW-T-700/3A ASTM B210-12
This Product Complies to FAR BAA, DFARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

Plant Serial: 00029646
Kaiser Order Number: 227053
Line Item: 001

KAISER ALUMINUM

FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

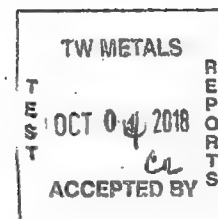
CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager



KAISER ALUMINUM FABRICATED PRODUCTS

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49392322-1		CUSTOMER PART NUMBER: 41879		PRODUCT DESCRIPTION: Drawn Seamless Tube/Pipe	
KAISER ORDER NUMBER: 226651	LINE ITEM: 001	SHIP DATE: 08/14/2018	KAISER LOT NUMBER: F00277201	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 249.000 LB	QUANTITY: 470.000 PCS	B/L NUMBER: 230672	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: TW METALS INC 27 ENGLEHARD DRIVE EXIT 8A OFF NJ TPK MONROE TWP, NJ 08831 USA			SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

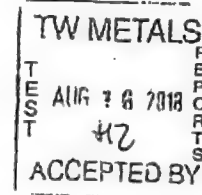
REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00277201	0001	0001	46.6	39.1	19.5	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot.
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D21756	.63	.30	.24	.04	.95	.10	.05	.03	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.3750"; Wall: 0.0350"; Round @
AMS4082P AMS-WW-T-700/6C ASTM B210-12
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.
This Product Complies to FAR BAA, DFARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA. MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA (DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5 TRADE AGREEMENTS).

KAISER ALUMINUM

FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager



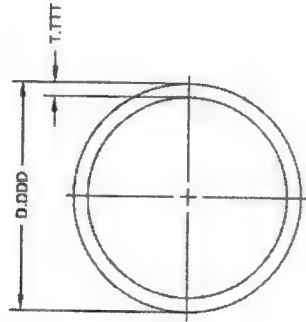
PURCHASE MATERIAL: $\triangle C$ 6061-T6 76276510/76511 SEAMLESS TUBING

SPECIFICATION: WW-T-7008
OR QQ-A-200/8 OR QQ-A-225/8
OR AMS 4080 OR AMS 4082 OR AMS 4083
OR ASTM B210 OR ASTM B241 $\triangle C$

PART NUMBER: M6061T6TD.DDD(WT.TTT) $\triangle C$
OD | WALL

WHERE "D.DDD" = OD IN INCHES
"T.TTT" = WALL THICKNESS
EG. 3/8" OD X 0.059 WALL = M6061T6TD.375W0.059 $\triangle C$

MATERIAL TOLERANCE: PER ANSI H35.2 $\triangle C$



RELEASED
2013-07-02

C	COMPLETE REFORMAT, ADDED T6510 & T6511. ADDED AMS 4083, ASTM B210 & ASTM B241 ADDED MATERIAL TOLERANCE	AJS	13.06.12
B	ADD QQ-A-200/8 & QQ-A-225/8	CP	04.01.23
A	NEW ISSUE	DS	01.08.21
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	AJS		
CHECKED	W		
MFG. APPR.	W		
APPROVED	W		
DATE	13.06.12		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. M6061T6T TITLE 6061-T6 TUBING SCALE NTS REV. C SHEET 1 OF 1 COPYRIGHT © 2001 BY DART AEROSPACE LTD. THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR THE PURPOSES FOR WHICH IT WAS ISSUED AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 TO 375W.025

PO / BATCH NO.: P0041405 / 5126578

DATE: 18/11/09

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.375"

QUANTITY RECEIVED: 48ft

THICKNESS RECEIVED: 0.375"

QUANTITY INSPECTED: 48ft

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	AMS 4082
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	F00277201 0001
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/11/09</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



JIAXING MT STAINLESS STEEL CO.,LTD

MILL TEST CERTIFICATE

EN10204 3.1 CERTIFICATE

ISO 9001: 2015 TUV SUD CERT REGISTRATION No.: 01 100 095954
PED/97/23/CE EURO CERT CERTIFICATE NO:CN.CE.1110S1-02/14



Practically Right.

CERTIFICATE NO.: 18MTC-180419769-10

SALES CONTRACT NO.: M 49380769

COMMODITY: STAINLESS STEEL SEAMLESS TUBE

SPECIFICATION: ASTM A269-15a, ASTM A213-17, ASME SA213-17

PURCHASER: KASUGAI CO., LTD.

ORDER: M 49380769

DATE OF REPORT: 2018-4-19

Steel Grade	Heat No.	Dimensions			Quantity		Process	Delivery Condition	Macroscopic Inspection	
		O.D. (INCH)	W.T. (INCH)	Length (FT)	FT	Piece			End Cut	Appearance
TP304/TP304L	N171009AS12	1/2	0.049	20	10460	523	Cold-Drawn	Pickled & 320 Grit polish	Passed	Passed

Chemical Composition (W.T. %)

Element	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	-	-	-	-	-
Requirements	≤0.035	≤1.00	≤2.00	≤0.045	≤0.030	18.0-20.0	8.0-11.0	-	-	-	-	-	-	-
Ladle Analysis	0.014	0.38	1.34	0.031	0.001	18.21	8.04	-	-	-	-	-	-	-

Mechanical Properties

Test Item	Y.S. (MPa) Rp0.2	T.S. (MPa) Rm	EL. (%) In2In	Reduction of Area Z (%)	Hardness HRC	Cold Bend Test	Flaring Test	Flattening Test	P.M.I. TEST
Requirements	≥205	≥515	≥35	-	≤80	-	-	e=0.09	-
Test Results	290	605	60	-	77	Passed	Passed	Passed	Passed

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1. WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND THE TEST RESULTS ARE IN COMPLIANCE WITH THE TERMS OF THE PURCHASE ORDER OR CONTRACT
2. THE CERTIFICATE SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE COMPANY.

Prepared by:

李振峰

Approved by:

Eric T.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING
SPECIFICATION: ASTM A213 OR ASME SA213 OR ASTM A269

WALL THICKNESS TOLERANCE PER ASTM A269 AS FOLLOWS:

OD (IN)	PERMISSIBLE	PERMISSIBLE
UP TO 1/2	OD TOL (IN)	WALL TOL
1/2 TO 1 1/2 EXCL	±0.005	±15%
1 1/2 TO 3% EXCL	±0.005	±10%
3% TO 5% EXCL	±0.010	±10%
5% TO 8% EXCL	±0.015	±10%
	±0.030	

PART NUMBER M304TRD.DDD;W|TTT|WALL

WHERE "D.DDD" = OUTSIDE DIAMETER IN INCHES
AND "TTT" = WALL THICKNESS IN INCHES

EG. 0.375" OD X 0.065" WALL TUBING = M304TRD 375W.065

RELEASED
08/21/23

B	REFORMAT DWG. ADD SPECS (7/4 DE 1).	CP	08 10 20
A	REF PART 08-020A	DS	01 08 08
REV	NEW ISSUE	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG APPR			
APPROVED			
DE APPR			
DATE	08.10.23		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304TR			
TITLE 304/316 ROUND TUBING			
REV. B			
SHEET 1 OF 1			
SCALE NTS			
C:\TEMP\1 - 2281 BY DART AEROSPACE LTD			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304TRJ.500W.049

PO / BATCH NO.: P0041405 / S126572

DATE: 18/11/04

MATERIAL CERT REC'D: Ks

THICKNESS ORDERED: 0.500"

QUANTITY RECEIVED: 6044

THICKNESS RECEIVED: 0.500"

QUANTITY INSPECTED: 6044

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	N	
CORROSION	Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	N	ASTM A269
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	N	MT: N171009 A512
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>Ar</u>		SIGNED OFF BY: _____	
DATE: <u>18/11/04</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



JIAXING MT STAINLESS STEEL CO.,LTD

MILL TEST CERTIFICATE

EN10204 3.1 CERTIFICATE

ISO 9001: 2015 TUV SUD CERT REGISTRATION No.: 01 100 095954
PED/97/23/CE EURO CERTIFICATE NO:CN.CE.1110S1-02/14



CERTIFICATE NO.: 18MTC-0725121-07

SALES CONTRACT NO.: M 49385121

COMMODITY: STAINLESS STEEL SEAMLESS TUBE

SPECIFICATION: ASTM A269-15a, ASTM A213-17, ASME SA213-17

PURCHASER: KASUGAI CO., LTD.

ORDER: M 49385121

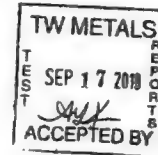
DATE OF REPORT: 2018-7-25

Steel Grade	Heat No.	Dimensions			Quantity		Process	Delivery Condition	Macroscopic Inspection	
		O.D. (INCH)	W.T. (INCH)	Length (FT)	FT	Piece			End Cut	Appearance
TP304/TP304L	N180118AS01	3/4	0.049	20	5200	260	Cold-Drawn	Pickled & 320 Grit polish	Passed	Passed

Chemical Composition (W.T. %)													
Element	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	-	-	-	-
Requirements	≤0.035	≤1.00	≤2.00	≤0.045	≤0.030	18.0-20.0	8.0-11.0	-	-	-	-	-	-
Ladle Analysis	0.017	0.35	1.37	0.036	0.001	18.1	8.01	-	-	-	-	-	-

Mechanical Properties									
Test Item	Y.S. (MPa) Rp0.2	T.S. (MPa) Rm	EL. (%) In2in	Reduction of Area Z (%)	Hardness s	Cold Bend Test	Flaring Test	Flattening Test	P.M.I. TEST
Requirements	≥205	≥515	≥35	-	≤80	-	-	e=0.09	-
Test Results	260	580	50	-	75	Passed	Passed	Passed	Passed

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1. WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND THE TEST RESULTS ARE IN COMPLIANCE WITH THE TERMS OF THE PURCHASE ORDER OR CONTRACT
2. THE CERTIFICATE SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE COMPANY.

Prepared by:

[Signature]

Approved by:

[Signature]

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING

SPECIFICATION

ASTM A213 OR ASME SA213 OR ASTM A289

WALL THICKNESS TOLERANCE PER ASTM A269 AS FOLLOWS:

OD (IN)	PERMISSIBLE OD TOL (IN)	PERMISSIBLE WALL TOL
UP TO 1/2	±0.005	±15%
1/2 TO 1 1/2 EXCL	±0.005	±10%
1 1/2 TO 3 1/2 EXCL	±0.010	±10%
3 1/2 TO 5 1/2 EXCL	±0.015	±10%
5 1/2 TO 8 EXCL	±0.030	±10%

PART NUMBER

M304TR1D.DDD:W/TTT
OD | WALL

WHERE "D.DDD" = OUTSIDE DIAMETER IN INCHES
AND "TTT" = WALL THICKNESS IN INCHES

EG. 0.375" OD X 0.065" WALL TUBING = M304TRD 375W.065

RELEASED
R 08/10/20

B	REFORMAT DING REF PAR 06 (2DA)	CP	08.10.20
A	NEW ISSUE	DS	01.05.08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR			
APPROVED			
DE APPR			
DATE	08.10.20		

DART AEROSPACE LTD	
HAWKESBURY ONTARIO CANADA	
DRAWING NO	M304TR
TITLE	304/316 ROUND TUBING
REV. B	SHEET 1 OF 1
SCALE	NTS
CONTINUED - 1231 BY DART AEROSPACE LTD	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304 TR0-2500.049

PO / BATCH NO.: P0041405/5126573

DATE: 18/11/09

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.750"

QUANTITY RECEIVED: 2004

THICKNESS RECEIVED: 0.750"

QUANTITY INSPECTED: 2004

SHEET SIZE ORDERED: —

QUANTITY REJECTED: —

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	N	ASTM A269
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	MT. N180118A501
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____	
DATE: <u>18/11/09</u>	DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MILL TEST REPORT

Purchaser.: TW METALS-Cranbury				Certificate No.: 2018-02-053					
Contract No.: TWM P.O.No.: M49377294				Date of Issue.: 2018.02.05					
Commodity: Stainless Steel Seamless Tubes				Specifications: ASTM A213-17/ASME SA213-15/ASTM A269-15a EAW					
Process: Cold Drawn				Delivery Condition: OD Polished to 240 Grit					
Steel Grade	Heat Number	Lot Number	Dimensions				Quantity		
TP304/TP304L	YX1709-608	180127-10	7/8"x0.065"x20'				Pieces	Feet	
							50	1,000	
Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-11.00	-	-
Ladle Analysis	0.025	0.62	0.031	0.002	0.44	18.10	8.05	-	-
Product Analysis	0.026	0.65	0.032	0.002	0.43	18.12	8.10	-	-
Mechanical Properties									
Test Item	Elongation (% in 2")		Tensile Strength (PSI)			Yield Strength (PSI)			
Requirements	≥35		Rm			Rp / 0.2%			
Test Results	64/63		≥75,000			≥30,000			
			84,000/85,000			41,000/43,000			
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.L. Test		
Requirements	-	HRB≤80	-	22%	e=0.09	-	-		
Test Results	-	72/74	-	Passed	Passed	-	OK		
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection				
Requirements	ASTM E 426	-	-	ASTM A262 E	End Cut	Appearance			
Test Results	Passed	-	-	OK	OK	OK			

ISO 9001:2008 Certified by CAS 117 16 QU 0053-06 ROS

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-17
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE
FAR BAA / DFARS BAA / FAR TAA



By:

James Shi

James Shi / Manager

Quality Control Department

We hereby certify that this report is true and correct.

Jiangsu Pufa Stainless Steel Tube Co., Ltd.

No. 99, Xuean Middle Road, Dongchen Town, Rugao City, Jiangsu Province, P.R.China



SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING

SPECIFICATION:

ASTM A213 OR ASME SA213 OR ASTM A269

WALL THICKNESS TOLERANCE PER ASTM A269 AS FOLLOWS:

OD (IN)	PERMISSIBLE OD TOL. (IN)	PERMISSIBLE WALL TOL.
UP TO 1/2	±0.005	±15%
1/2 TO 1 1/4, EXCL.	±0.005	±10%
1 1/4 TO 3 1/2, EXCL.	±0.010	±10%
3 1/2 TO 5 1/2, EXCL.	±0.015	±10%
5 1/2 TO 8, EXCL.	±0.030	±10%

PART NUMBER

M304TR D.DDD.W.TTT
OD WALL

WHERE "D.DDD" = OUTSIDE DIAMETER IN INCHES
AND ".TTT" = WALL THICKNESS IN INCHES

EG. 0 375" OD X 0.065" WALL TUBING = M304TR0 375W.065

RELEASED
10/18/23

B	REFORMAT DWG. ADD SPECS (7N D8-1)	CP	08.10.20
A	REF PAR 08.020A	DS	01.08.08
REV	NEW ISSUE	BY	DATE
DESIGN	DART AEROSPACE LTD		
DRAWN	HAWKESBURY, ONTARIO, CANADA		
CHECKED	DRAWING NO	REV. B	
MFG APPR	M304TR	SHEET 1 OF 1	
APPROVED	TITLE	SCALE	
DE APPR	304/316 ROUND TUBING	NTS	
DATE	08.10.20	#1803-1-1-7201 BY DART AEROSPACE LTD	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304TR0.875W.065

PO / BATCH NO.: P0041405/8126574

DATE: 18/11/09

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.875"

QUANTITY RECEIVED: 20ft

THICKNESS RECEIVED: 0.875"

QUANTITY INSPECTED: 20ft

SHEET SIZE ORDERED: -

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> N	<u>A57M A213</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> N	<u>MT-YX1709-608</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>At</u>		SIGNED OFF BY: _____	
DATE: <u>18/11/09</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MISCO

JIAXING MT STAINLESS STEEL CO.,LTD

MILL TEST CERTIFICATE

EN10204 3.1 CERTIFICATE

ISO 9001: 2015 TUV SUD CERT REGISTRATION No.: 01 100 095954

PED/97/23/CE EURO CERT CERTIFICATE NO:CN.CE.1110S1-02/14



Precisely Right.

CERTIFICATE NO.: 18MTC-0518117-07

SALES CONTRACT NO.: M 49385117

COMMODITY: STAINLESS STEEL SEAMLESS TUBE

SPECIFICATION: ASTM A269-15a, ASTM A213-17, ASME SA213-17

PURCHASER: KASUGAI CO., LTD.

ORDER: M 49385117

DATE OF REPORT: 2018-5-18

Steel Grade	Heat No.	Dimensions			Quantity		Process	Delivery Condition	Macroscopic Inspection	
		O.D. (INCH)	W.T. (INCH)	Length (FT)	FT	Piece			End Cut	Appear
TP304/TP304L	N180219AS15	1-1/4	0.12	20	1700	85	Cold-Drawn	Pickled & 320 Grit polish	Passed	Pass

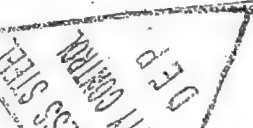
Chemical Composition (W.T. %)

Element	C	Si	Mn	P	S	Cr	Ni	Mo	Ti
Requirements	≤0.035	≤1.00	≤2.00	≤0.045	≤0.030	18.0-20.0	8.0-11.0	-	-
Ladle Analysis	0.023	0.45	0.96	0.037	0.004	18.28	8.08	-	-

Mechanical Properties

Test Item	Y.S. (MPa) Rp0.2	T.S. (MPa) Rm	EL. (%) In2in	Reduction of Area Z (%)	Hardness s	Cold Bend Test	Flaring Test	Flattening Test
Requirements	≥205	≥515	≥35	-	≤80	-	-	e=0.09
Test Results	275	605	59	-	75	Passed	Passed	Passed

Non Destructive Tests



Remarks:

- ASTM A269-15a, ASTM A213-17, ASME SA213-17
- TUBES TESTED PER ASTM A1016
- SOLUTION HEAT TREATMENT: 1050°C X 1.5min/min
- NO WELD REPAIR WAS PERFORMED.
- PMI TESTING DONE ON EACH TUBE - SATISFACTORY
- IN COMPLIANCE WITH NACE MR0175/ISO 15156-2015
- FREE FROM MERCURY CONTAMINATION
- MATERIAL IS FREE FROM RADIOACTIVITY
- VISUAL CHECK IS SATISFACTORY
- COUNTRY OF ORIGIN: CHINA
- COUNTRY OF MELT: CHINA

Eddy Current Test

ASTM E 426

Passed

1. WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND THE TEST RESULTS ARE IN COMPLIANCE WITH THE TERMS OF THE PURCHASE ORDER OR CONTRACT

2. THE CERTIFICATE SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE COMPANY.

Prepared by:

Approved by:



SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING

SPECIFICATION

ASTM A213 OR ASME SA213 OR ASTM A269

WALL THICKNESS TOLERANCE PER ASTM A269 AS FOLLOWS:

OD (IN)	PERMISSIBLE	PERMISSIBLE
UP TO 1/2	OD TOL (IN)	WALL TOL
1/2 TO 1 1/2, EXCL.	±0.005	±15%
1 1/2 TO 3 1/2, EXCL.	±0.010	±10%
3 1/2 TO 5 1/2, EXCL.	±0.015	±10%
5 1/2 TO 8, EXCL.	±0.030	±10%

PART NUMBER

M304TR/D.DDD/W.TTT
OD WALL

WHERE "D.DDD" = OUTSIDE DIAMETER IN INCHES
AND "TTT" = WALL THICKNESS IN INCHES

EG. 0.375" OD X 0.065" WALL TUBING = M304TRD 375W.065

RELEASED
08/24/23

B	REFORMAT DWG ADD SPEC'S (N/DN 1)	CP	08 10 20
A	NEW ISS	DS	01 06 08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG APPR			
APPROVED			
DE APPR			
DATE	08 10 20		

DART AEROSPACE LTD		REV. B
HAWKESBURY, ONTARIO, CANADA		SHEET 1 OF 1
DRAWING NO	M304TR	SCALE
TITLE	304/316 ROUND TUBING	NTS
C:\Users\T 2261\My Desktop\AEP-SPACE LTD		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304TRI.250W 125
 DATE: 18/11/12

PO / BATCH NO.: P00M1405/S126575

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 40LH
 QUANTITY INSPECTED: 40LH
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250"
 THICKNESS RECEIVED: 1.250"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N	ASTM A 269
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N	MT: N180219AS15
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>AT</u>		SIGNED OFF BY: _____	
DATE: <u>18/11/12</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Customer: TWMEXT PO#:M49383265 SO#:LWMK92

Item:S44L00C Bundle:WLRW104TA82-12 Heat#:11P046

MTR#:WLPSRW104038.GIF

Item:S44L00C Bundle:WLRW104TA82-15 Heat#:11P046

WLPSRW104038

PO# M49383265 AG 01/11/18

MILL INSPECTION CERTIFICATE

EN 10204 3.1

CHANGSHU WALSHIN SPECIALTY STEEL CO.,LTD.

CUSTOMER: TA CHEN STAINLESS PIPE CO.,LTD.		HEAT NO.: 11P046	
DATE: 2017/11/05		SPECIFICATION: ASTM A312/A312M ASME SA312-15 SA312-15	
COMMODITY: STAINLESS STEEL SEAMLESS PIPE		CERTIFICATE NO.: 20171105250826	
DELIVERY CONDITION: COLD FINISHED SOLUTION ANNEALED AND PICKLED		GRADE: TP304/304L	

CHEMICAL COMPOSITION (WT%)																												
ELEMENTS	C	Si	Mn	P	S	Ni	Cr	Mo	N	Cu	Ti	Nb	Mo-Ta	Co	V	B	Al	Sb	Pb	As	Sn	Fe	Bi	Zr	Al+Ti	PREN	Ferrite content	
SPECIFICATION	min	0.000	0.000	0.000	0.000	8.000	18.000																					
	max	0.035	0.750	2.000	0.045	0.0300	11.000	20.000																				
RESULTS		0.023	0.420	0.910	0.037	0.0010	8.080	18.250	0.130	0.392																		

SIZE OD(I) x WT(sch) x L(mm)	PACKAGE NO.	PIECES	WEIGHT		TS MPa	YS		EL(50mm) %	HARDNESS HRC	FLATTENING TEST	FLARING TEST	I.C. TEST	PITTING CORROSION (mg/dm ² day)	GRAIN SIZE	Lot No.	HYDROSTATIC TEST MPa	EDDY CURRENT TEST	ULTRASONIC TEST
			R	Kg		0.2% MPa	1% MPa											
3"X5"X5"6066-7315	T482-11	132	3070.47	1015	600/605	301/301	/	68.5/68.5	78/79	GOOD	/	GOOD	/	/	201709-LG-F31	/	GOOD	/
3"X5"X5"6066-7315	T482-12	19	438.22	114	616/610	302/298	/	67/68	80/79.5	GOOD	/	GOOD	/	/	201709-LG-F41	/	GOOD	/
1 1/4"X5"X5"6066-7315	T482-13	96	2233.07	546	612/597	317/298	/	65/64	80/79	GOOD	/	GOOD	/	/	201709-LG-C82	/	GOOD	/
3"X5"X5"6066-7315	T482-15	25	574.15	149	615/610	302/298	/	67/68	80/79.5	GOOD	/	GOOD	/	/	201709-LG-F41	/	GOOD	/
1 1/4"X5"X5"6066-7315	T482-16	43	985.96	245	612/597	317/298	/	65/64	80/79	GOOD	/	GOOD	/	/	201709-LG-C82	/	GOOD	/
TOTAL:		315	7301.87	2059														

REMARKS:

NACE MR0175-2003

AS PER PROFORMA INVOICE NO. L55854-S

LC TEST PER ASTM A282-02a E MIL-P24681/3 MIL-P11440

NO REPAIR BY WELDING

MATERIAL FREE FROM MERCURY CONTAMINATION

COUNTRY OF ORIGIN: CHINA, COUNTRY OF MANUFACTURE: CHINA

TEST STANDARD PRACTICE: ASTM E406

REFERENCE DISCONTINUITY: DRILLED HOLE

WATER QUENCHED ANNEALING TEMPERATURE: 1060°C

FREE OF FRACTION

TW METALS REPORT

TESTED JAN 11 18

ACCEPTED BY

QUALITY MANAGER

Sum Pin

ADDRESS: 2# HAIYANG ROAD, HAIYU TOWN, CHANGSHU CITY, JIANGSU PROVINCE, CHINA 215519 TEL: +86-512-5256260 FAX: +86-512-5256027

B-2 CS-QM-10000-002-0201

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: TP304 TP316 STAINLESS STEEL SEAMLESS PIPE

SPECIFICATION:

ASTM A312 / ASME SA312

PART NUMBER:

M304PD DDDW TTT
OD WALL THICKNESS

WHERE "D.DDD" = OUTSIDE DIAMETER IN INCHES PER NPS DESIGNATION (REF TABLE 1)
AND "T.TT" = WALL THICKNESS IN INCHES PER PIPE SCHEDULE (REF TABLE 1)

EG. 3/8 SCHEDULE 40 PIPE = M304PD.0.675W.081

TABLE 1: DIMENSIONS OF NPS PIPE (REF ANSI B36.10/19)

NPS Designation	Outside Diameter (in)	Pipe Schedule Wall Thickness (in)	
		SCHEDULE 40	SCHEDULE 80
1/8	0.405	0.068	0.095
1/4	0.540	0.088	0.119
3/8	0.675	0.091	0.126
1/2	0.840	0.109	0.147
3/4	1.050	0.113	0.154
1	1.315	0.133	0.179
1-1/4	1.660	0.140	0.191
1-1/2	1.900	0.145	0.200
2	2.375	0.154	0.218
2-1/2	2.875	0.203	0.276
3	3.500	0.216	0.300
3-1/2	4.000	0.226	0.318
4	4.500	0.237	0.337

RELEASED

2017 JUN 19
ECN 17-590

APPROVED

A	REV.	NEW ISSUE	DESCRIPTION	CP	BY	DATE
DESIGN	DRAWN	CP	DART AEROSPACE LTD	CP		17.02.24
CHECKED	ML	CP	HAWKESBURY, ONTARIO, CANADA	CP		
MFG. APPR.	DD	DD	DRAWING NO.	DD		
APPROVED	VM	VM	M304P	VM		
DE APPR.	CP	CP	TITLE	CP		
DATE	17.02.24		304/316 PIPE			
			SHEET 1 OF 1			
			SCALE			
			NTS			
			COPYRIGHT - 2017 BY DART AEROSPACE LTD			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304 P0.675W.041
 DATE: 18/11/12

PO / BATCH NO.: P0041405/5126571

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 23.167 Ltr
 QUANTITY INSPECTED: 23.167 Ltr
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.675"
 THICKNESS RECEIVED: 0.675"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<u>N</u>	
CORRECT FINISH	<u>Y</u>	N	
CORROSION	Y	<u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u>	N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u>	N	<u>ASTM A312</u>
CORRECT THICKNESS	<u>Y</u>	N	
PHOTO REQUIRED	Y	<u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u>	N	<u>HT. 4PD46</u>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u>	N	
CORRECT M# ON THE MATERIAL	<u>Y</u>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____		
DATE: <u>18/11/12</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



A COMPANY OF MUELLER INDUSTRIES

PRECISION TUBE CO.

287 WISSAHICKON AVE.
NORTH WALES PA 19454

Control No: 6257

CERTIFIED TEST REPORT

CUSTOMER PURCHASE ORDER NO.	CUST. ORD. NO.	PRECISION TUBE P/N
M 49380591 LINE 001	475790	24A031250580005

SOLD: TW METALS
TO 175 TUBEWAY
FOREST PARK, GA 30298
UNITED STATES

SHIP: TW METALS
TO 175 TUBEWAY
FOREST PARK, GA 30298
UNITED STATES

QUANTITY ORD.	DESCRIPTION	QTY. SHIPPED	DATE SHIPPED
3204 FT	METAL - 6061 ALUM TEMPER - T6 SPEC - AMS 4082P ASTM-B-210-12 AMS-WW-T-700/6C LENGTH - 12 FT LGTH TOL +.1250 IN -.0000 IN SHAPE - ROUND FINISH - STRAIGHT EXACT LENGTHS OD .3125 +.0030 -.0030 ID WALL .0580 +.0040 -.0040	3456 FT	12/13/17

MECHANICAL PROPERTIES

SAMPLE #	TENSILE STRENGTH (P.S.I.)	YIELD STRENGTH (P.S.I.)	ELONGATION IN 2 INCHES (%)	ROCKWELL HARDNESS	AVERAGE GRAIN SIZE (MM.)
1	46,376	41,941	12		
2	45,712	40,899	15		

DESTRUCTIVE TESTS

Comments: FAR BAA COMPLIES, DFARS BAA COMPLIES, FAR TAA COMPLIES

NON-DESTRUCTIVE TESTS

EDDY CURRENT: PASS

CHEMICAL COMPOSITION

ALLOY: 6061		HEAT:		TRACEABILITY #: 2927553					
				RAW MATL VENDOR: PTC13607 - KAISER ALUMINUM INVESTMENTS					
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
Min	0.40		0.15		0.80	0.04			Rem.
Max	0.80	0.70	0.40	0.15					
OTHER ELEMENTS: 0.05 MAX EACH / 0.15 MAX TOTAL					1.20	0.35	0.25	0.15	

We hereby certify that the material has been manufactured and tested in accordance with the requirements of the applicable specifications and descriptions set forth on Precision Tube's sales acknowledgement. During the manufacturing, testing and inspection, the product did not come into direct contact with mercury or any of its compounds, nor with any mercury containing device or process. Test results indicate that the material is compliant with the current revision of the RoHS Directive (2011/65/EU).

DEC 19 2017

49380591

TW METALS

By: Jennifer James
Jennifer James
Quality & Technical Lead

12/13/17

Page: 1 of 1

Melted and Manufactured in USA
QMS Registered to ISO 9001: 2008

PURCHASE MATERIAL: 6061-T6X762T8510T6511 SEAMLESS TUBING

SPECIFICATION:

WW-T-7006
OR QQ-A-200/8 OR QQ-A-225/8
OR AMS 4080 OR AMS 4082 OR AMS 4083
OR ASTM B210 OR ASTM B241

PART NUMBER:

M6061T6T1D.DDD|WT.TTT
OD WALL

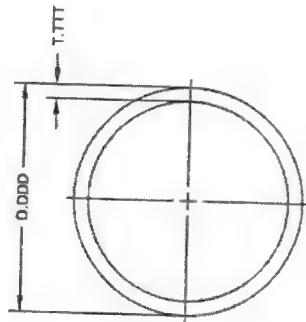
WHERE "D.DDD" = OD IN INCHES

"T.TTT" = WALL THICKNESS

EG. 3/8" OD X 0.058 WALL = M6061T6T0.375W0.058

MATERIAL TOLERANCE:

PER ANSI H35.2 /C



RELEASED
2013-07-02

C	COMPLETE REFORMAT, ADDED T6510 & T6511. ADDED AMS 4083, ASTM B210 & ASTM B241.	AJS	13.06.12
B	ADDED MATERIAL TOLERANCE	CP	04.01.23
A	ADD QQ-A-200/8 & QQ-A-225/8	DS	01.08.21
REV.	NEW ISSUE	BY	DATE
DESIGN	AJS		
DRAWN	AJS		
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR			
DATE	13.06.12		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. M6061T6T TITLE 6061-T6 TUBING SHEET 1 OF 1 SCALE NTS REV. C CORPORATE DESIGN BY DART AEROSPACE LTD THIS DOCUMENT IS UNCLASSIFIED AND IS NOT TO BE RELEASED TO THE PUBLIC UNLESS IT IS REQUESTED BY THE CANADIAN GOVERNMENT			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T670.3 125 W. 058
 DATE: 18/11/12

PO / BATCH NO.: P0041405 / S126570

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 1084
 QUANTITY INSPECTED: 1084
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.3125"
 THICKNESS RECEIVED: 0.3125"
 SHEET SIZE ORDERED: -
 SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	AMS 4082
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT-2927553
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>AT</u>		SIGNED OFF BY: _____	
DATE: <u>18/11/12</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

KAISER ALUMINUM FABRICATED PRODUCTS

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49383418-1		CUSTOMER PART NUMBER: 42588		PRODUCT DESCRIPTION: Drawn Seamless Tube/Pipe	
KAISER ORDER NUMBER: 225211	LINE ITEM: 001	SHIP DATE: 03/03/2018	KAISER LOT NUMBER: F00262536	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 638.000 LB	QUANTITY: 230.000 PCS	B/L NUMBER: 228717	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: TW METALS INC 235 WEST TUBEWAY DRIVE CAROL STREAM, IL 60188 USA			SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

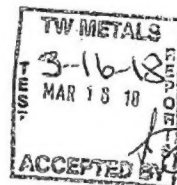
REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON% IACS	BEND
F00262536	0001	0001	48.0	43.2	19.0	N/A	N/A	N/A
F00262536	0001	0002	48.0	43.2	19.0	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D30862	.58	.24	.22	.03	.92	.07	.07	.02	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.6250"; Wall: 0.1250"; Round @
AMS4082P AMS-WW-T-700/6C ASTM B210-12 WW-T-700/6F
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.
This Product Complies to FAR BAA, DFARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

Plant Serial: 00027581
Kaiser Order Number: 225211
Line Item: 001

KAISER

ALUMINUM

FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

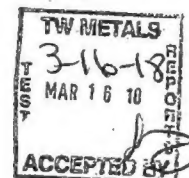
KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager

[Signature]



Plant Serial: 00027581
Kaiser Order Number: 225211
Line Item: 001

PURCHASE MATERIAL: 6061-T6/62T6510T6511 SEAMLESS TUBING

SPECIFICATION:

WW-T-7008
OR QQ-A-200/8 OR QQ-A-225/8
OR AMS 4083 OR AMS 4082 OR AMS 4083
OR ASTM B210 OR ASTM B241

PART NUMBER:

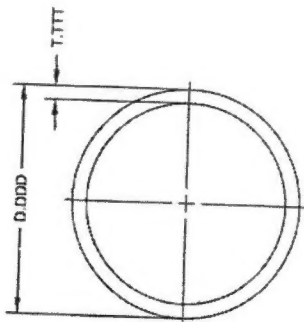
M6061T6T/P.DDD|WT.TTT
OD WALL

WHERE "D.DDD" = OD IN INCHES
"T.TTT" = WALL THICKNESS

EG. 3.0" OD X 0.058 WALL = M6061T6T0.375W0.058

MATERIAL TOLERANCE:

PER ANSI H35.2 $\triangle C$



RELEASED
2013-07-02

C	COMPLETE REFORMAT, ADDED T6510 & T6511. ADDED AMS 4083, ASTM B210 & ASTM B241 ADDED MATERIAL TOLERANCE	AJS	13.06.12
B	ADD QQ-A-200/8 & QQ-A-225/8	CP	04.01.23
A	NEW ISSUE	DS	01.08.21
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	AJS		
CHECKED	W		
MFG. APPR.	W		
APPROVED	W		
DE APPR.	W		
DATE	13.06.12		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. C	
DRAWING NO. M6061T6T		SHEET 1 OF 1	
TITLE 6061-T6 TUBING		SCALE	
DATE 13.06.12		NTS	
COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS UNCLASSIFIED AND IS NOT TO BE RELEASED OR DISCLOSED TO ANY OTHER PARTY WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 T0-625W-125

PO / BATCH NO.: P0041405/S126577

DATE: 18/11/12

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.625"

QUANTITY RECEIVED: 124

THICKNESS RECEIVED: 0.625"

QUANTITY INSPECTED: 124

SHEET SIZE ORDERED: -

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	N	<u>AMS 4082</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	<u>HT: F00262536</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____		
DATE: <u>18/11/12</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in